

What is claimed is:

1. A connecting structure for sectional rack,
comprising a plurality of vertical posts, a
5 plurality of horizontal shelves, a plurality of
connecting members, a plurality of pads adapted
to attach to said connecting members, and a
plurality of outer covers separately provided at
each corner of said horizontal shelves for
10 engaging with said connecting members and said
pads;

each of said vertical posts being provided with
at least one row of engaging holes, with which said
15 connecting members are engaged to attach to said
vertical post;

each of said connecting members being provided at
a first end with upper and lower hooks adapted to
20 extend into two vertically adjacent engaging holes
on said vertical post and thereby hold said
connecting member to said vertical post; a second
end of said connecting member opposite to said
first end being located outside said vertical post
25 and formed into a hooking section for engaging with
said outer cover provided at each corner of said

horizontal shelf;

each of said pads having a first side adapted to
fitly bear against an outer surface of said
5 vertical post, and a second side of said pad
opposite to said first side being a downward and
outward inclined surface; said pad being provided
at predetermined positions with upper and lower
openings, through which said upper and lower hooks
10 of said connecting member may be passed to engage
with said pad and extend into said engaging holes
on said vertical post; and

each of said outer covers having an open outer side
15 facing toward said vertical post and an open bottom,
and being provided with two internal walls, which
are downward and inward inclined surfaces adapted
to fitly bear against said inclined surface at the
second side of said pad when said pad is associated
20 with said connecting member and covered by said
outer cover;

whereby when said outer cover is fully engaged with
said connecting member and said pad that have
25 already been connected to said engaging holes on
said vertical post, said internal inclined

surfaces of said outer cover apply a pushing force against said inclined surface of said pad to firmly push said pad against the outer surface of said vertical post, while said outer cover pulls said
5 connecting member outward via said hooking section to tightly press said upper and lower hooks of said connecting member against inner sides of said engaging holes, causing said outer cover, said connecting member, said pad, and said vertical
10 post to tightly connected to one another for said horizontal shelf to stably supported on said vertical posts.

2. The connecting structure for sectional rack as
15 claimed in claim 1, wherein said hooking section of said connecting member includes a retaining slot vertically downward extended from a top of said connecting member, and said outer cover is internally provided at a top with a vertically
20 downward extended insertion plate adapted to extend into and engage with said retaining slot of said connecting member.

3. The connecting structure for sectional rack as
25 claimed in claim 1, wherein said hooking section of said connecting member includes a vertically

extended guide rail, and said outer cover is internally provided with a guide space adapted to engage with said guide rail of said connecting member.

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4. The connecting structure for sectional rack as claimed in claim 3, wherein said outer cover has two lateral sides that are inward stamped to form two projections, a front side of each said
10 projection facing toward said pad being a downward and inward inclined surface adapted to fitly bear against said inclined surface of said pad, and a space between a rear side of each said projection opposite to said front side and an inner wall
15 surface of said outer cover forming said guide space.

5. The connecting structure for sectional rack as claimed in claim 1, wherein said outer cover is
20 provided at a top with a long cut, an inner end of which has a downward extended lug, and said connecting member is correspondingly provided at a top with a notch, whereby when said outer cover is put on said connecting member, said lug is
25 extended into said notch on the top of said connecting member 30 while the top of said

connecting member is extended into said long cut
of said outer cover.

5 6. The connecting structure for sectional rack as
claimed in claim 1, wherein said pad has an embedded
metal piece, a portion of which is forward
projected from the first side of said pad to form
a nose, said nose being adapted to extend into a
lower one of said two engaging holes on said
10 vertical post engaged with said upper and lower
hooks of said connecting member when said pad is
firmly pushed against said vertical post by said
outer cover, and said nose being located in said
lower engaging hole close to an upper end thereof.

15 7. The connecting structure for sectional rack as
claimed in claim 1, wherein said pad has two
downward and outward inclined lateral sides
between said first and said second side to define
20 a downward increasing width between said two
lateral sides.